Panasonic ideas for life 2010 / late Professional Plasma Displays **Panasonic ideas for life** CERTIFIED CONTROL CONTROL panasonic.net/proplasma

Vivid image reproduction on large-screen plasma displays.

Higher image quality and lower power consumption combine to further expand applications.

In addition to high-resolution images, professional displays must provide system expandability and durability for long-term operation. That is why Panasonic professional plasma displays offer highly detailed images for digital signage use and presentations, in an energy-efficient design that lowers power consumption. Plasma panels precisely depict even the tiniest details and offer high luminous efficiency, while remaining free of mercury and lead, to help conserve the environment. New 58-inch and 65-inch displays, also featuring panels with high luminous efficiency, have been added to the line-up.









NeoPDP Technology



A newly developed cell structure, an innovative drive technology, a new discharge gas and a revamped panel have four times luminous efficiency* compared to our 2007 models.

 * 1: On the PF20 Series only. Comparing panel brightness when operating a 2010 panel at the same power as a 2007 full-HD panel.

The Wide Range of Input Terminals and SLOT 2.0





Greater display convenience and system flexibility are gained with standard HDMI and DVI terminals and a PJLink™-compliant network function.

Environmentally Friendly Panel 🛛 🚾 ECO





Mercury and Lead Free Plasma Display Panel

Panasonic products are more friendly to the environment. All plasma display panels are mercury and lead free. This reduces the impact on the environment when recycling or disposing of them in the future.

Long Panel Life, Up to 100,000 Hours*2

Panasonic plasma display panel offers a long life of up to 100,000 hours, under normal operating conditions - providing gorgeous HD images for

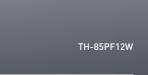
*2: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.

























TH-42PH20W







Newly Developed Panel Reproduces Exceptional Detail Over the Entire Large Screen

NeoPDP Technology Increases Luminous Efficiency by About 4x for Greater Image Quality

Plasma displays illuminate their pixels with the following three steps.

- 1. An electric discharge is used to generate ultraviolet rays.
- 2. The ultraviolet rays illuminate phosphors.
- 3. The light from the phosphors is emitted from the panel. NeoPDP technology further improves the efficiency of all of these steps to achieve about four times*1 the luminous efficiency of our 2007 models. This results in better image quality and saves more power.



- *1: Comparing panel brightness when operating a 2010 panel at the same power as a 2007 full-HD panel.
- * The PF12 Series achieves about two times the luminous efficiency of

New Dynamic Black Layer New electrical discharge gas Electrical discharge limproved ultraviolet ray conversion ratio discharge Improved electrical discharge ratio Improved ight exchange ratio Light emission improved ultraviolet ray conversion ratio New high-density phosphors New cell structure New high-density phosphors

Native Contrast of 5,000,000:1*2

To take maximum advantage of the inherently superior black expression of self-illuminating plasma displays, the newly developed panel allows the PF20 Series to emit light without the use of a pre-discharge. Its high contrast teams up with deeper black reproduction — which forms the basis of image expression — to render rich textures in images with subtle shading and colour differences.

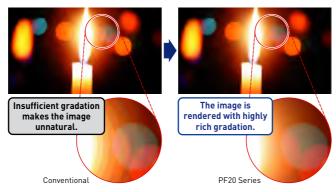
- *2: The dark room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4% window.
- * The PF12 Series has 40,000:1 contrast ratio.





Rich, Expressive Gradation of 6,144 Equivalent Steps

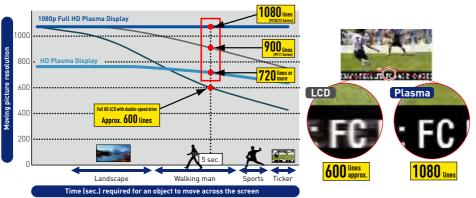
Panasonic plasma displays achieve rich shading with an incredibly accurate 6,144 equivalent steps of gradation in all scenes. These displays deliver richer gradation from brilliant whites to robust blacks, and faithfully reproduce the textural quality of the original video source.



${\bf Moving\ Picture\ Resolution\ of\ 1,080\ Lines\ for\ Sharp\ and\ Clear\ Display\ of\ Fast-motion\ Images}$

The superb moving picture resolution of the plasma display panel ensures that even fast-moving action is displayed clearly, with full detail and with fewer after-images. Panasonic plasma displays deliver beautiful, high-resolution images from 1080p Full HD sources.

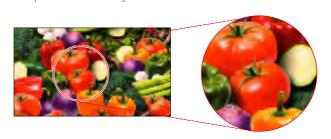
* Measured by APDC (Advanced PDP Development Centre Corporation) Method.





Approx. 110%*3 of the Colour Gamut of the HDTV Standard

High-definition broadcasts are based on the HDTV standard, rather than the conventional PAL standard. Panasonic plasma displays reproduce a wide colour gamut exceeding the entire colour range specified in the HDTV standard (ITU-R, BT.709). This results in a natural and faithful colour reproduction on a large screen. Digital Colour Reality technology also assures images with immaculate details.



Dynamic Images Viewed from Any Angle

Panasonic plasma display panels use self-illuminating pixels to provide more vivid colour and sharper images that never appear faded, even when viewed at an angle. Panasonic plasma displays deliver high-resolution images without losing the quality of the original video source.



Tough Body with Impact-Resistant Front Glass Panel

The front of the plasma display is covered by a hard glass panel that provides strong resistance to impact and

breakage, thereby providing extra assurance against damage when used in busy public spaces. It virtually eliminates any need for additional protective covering.



• Minimal Maintenance

Cleaning is simple, as dust and dirt can easily be wiped away with a soft cloth. Panasonic plasma displays provide stunning pictures, have a long service life, and require minimal maintenance.

Long Life of up to 100,000 Hours*4

The Panasonic plasma display panel offers a long life of approximately 100,000 hours*4, under normal operating conditions — providing gorgeous HD images for many years.

Long Life for Vertical Installations Too

Panasonic plasma displays can also be set up in a vertical format, allowing for more efficient use of limited space configurations. The long life of approximately 100,000 hours*4 and superb image quality are completely unaffected by vertical installation. When the portrait mode is selected in the initial display settings, the on-screen display rotates 90-degrees for easy reading. The cooling fan control also changes automatically for portrait mode.

*4: Guideline operating hours before the panel brightness is reduced to half when the panel is used to display motion pictures in the Standard mode. Afterimages (burned-in images) and malfunctions are not taken into consideration.



Rich Gradation Raises the Quality of Digital Signage with Faithful, **High-Contrast Image Reproduction**

Tough Body with Impact-Resistant Front Glass Panel Withstands Use in Public Spaces

The front of the plasma display is covered by a hard glass panel that provides strong resistance to impact and breakage, thereby providing extra assurance against damage when used in busy public spaces. It virtually eliminates any need for additional protective covering.

Minimal Maintenance

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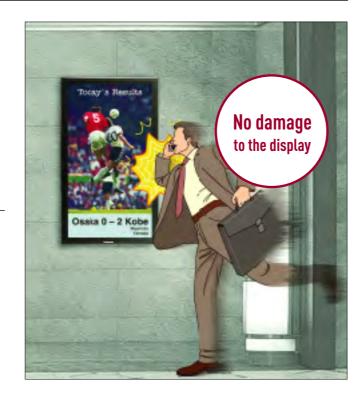
Long Life of up to 100,000 Hours*1

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• Long Life for Vertical Installations Too

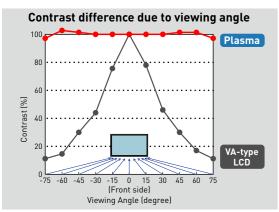
Panasonic plasma displays can also be set up in a vertical format, allowing for more efficient use of limited space configurations. The long life of approximately 100,000 hours*1 and superb image quality are completely unaffected by vertical installation. When the portrait mode is selected in the initial display settings, the on-screen display rotates 90degrees for easy reading. The cooling fan control also changes automatically for portrait mode.

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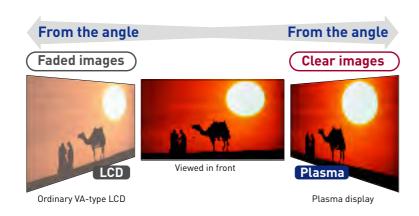


Dynamic Images Seen from Any Angle

Panasonic plasma display panels use self-illuminating pixels to provide more vivid colour and sharper images that never appear faded, even when viewed from an angle. Panasonic plasma displays deliver high-resolution images without losing the quality of the original video source.

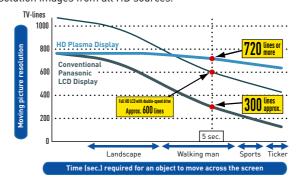


* Measurements obtained by Panasonio



Sharp and Clear Fast-Motion Images

Panasonic pro plasmas handle fast-motion video in real time without motion blur or lag. The superior moving image picture resolution ensures that even fast-moving action is displayed clearly with full detail. Panasonic assures delivery of beautiful, highresolution images from all HD sources.

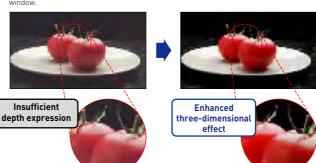


* Measured by APDC (Advanced PDP Development Centre Corporation) Method.

Crisp Images with a Native Contrast of 2,000,000:1*2

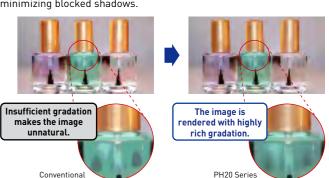
Original image-processing technologies have enabled a high contrast ratio of 2,000,000:1*2. This produces robust blacks and gives images greater realism and depth.

*2: The dark room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4%



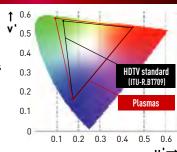
Rich, Expressive Gradation with 5,120 Equivalent Steps

Maximum 18-bit digital signal processing renders images with the equivalent of 5,120 steps of gradation, while suppressing noise and minimizing blocked shadows.



Colours Faithful to the Original

This wide colour gamut exceeds even the colour reproduction range of the HDTV standard (ITU-R, BT.709). The colours produced are more faithful to the original and appear more natural.





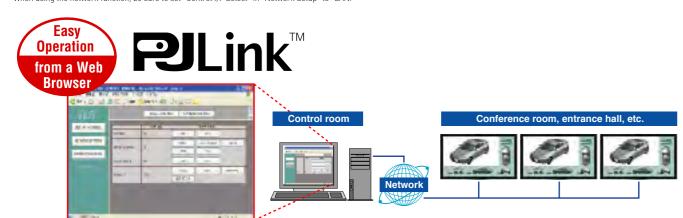
Numerous Image Display Functions and Utilities Enhance the Power of the Large-Screen Display

PJLink^{™*1}-Compatible Network Function for Remote Control

This network function lets you operate displays by remote control and monitor their status through a LAN connection. Since it supports the "PJLink^{™*1} Class 1" industry standard, existing infrastructure can be used for effective plasma display operation. You can also control the display from a web browser*2, making it even easier to use.

The network function also uses the same protocol as Panasonic projectors, so other video devices can be combined to upgrade the system.

- *1: Unified standards for a telecommunications protocol for operating and managing multiple projectors.
 *2: PF20 Series only.
- When using the network function, be sure to set "Control I/F Select" in "Network Setup" to "LAN."





Conference systems utilized together with projectors.

8



Portrait Zoom Function Enlarges Horizontal Images for Vertical Display

By dividing horizontal content into three vertical segments, the Portrait Zoom function can dynamically display selected segments. Then, by grouping three 103-inch or 85-inch plasma displays together in portrait mode, a dynamic multi-display can be configured to display life-size people with almost the same field of view as the original content.

Desired segments are

* Some degradation occurs when images are enlarged.

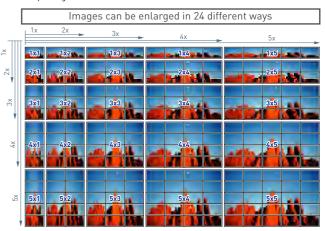
displayed full-screen in Horizontal content is divided into No restriction on input sources

Multi-Display Dynamically Displays **Images in Large Spaces**

The Multi-Display function enlarges images up to five times their original size, both vertically and horizontally. It enlarges images by the same zoom ratio in both vertical and horizontal directions, such as 2x2, 3x3, 4x4 and 5x5, or by different ratios in order to effectively use vertically or horizontally elongated spaces. Plasma display versatility can be further enhanced by freely selecting the zoom ratio to match the installation space.

- Some degradation occurs when images are enlarged.

 Provide an appropriate air-conditioned environment because the ambient temperature varies depending on the installation condition and location.



Effective Functions Used with Portrait Zoom or Multi Display

• Multi Al Control Function

By applying AI control to the brightness signal of the entire input signal using the same video processing as for a single-screen image, this function achieves a uniform brightness level over the entire image.

• Display ID Control

To prevent remote control errors that can occur when multiple displays are installed in close proximity, each display in a multi-screen system must have a unique ID. Assigning a display ID assures reliable remote control operation.

* The optional ID Remote Control Unit (EUR7636070R) is required for the TH-65PF20/58PF20/50PF20/42PF20/50PH20/42PH20.

Power-On Delay Function

This function automatically shifts the power-on time slightly for each display unit in the system, so there's less load on the power supply.

• Seam Hides Video Mode

When this mode is off, a full-screen image, including edges (the entire width of the bezel) of the display panel is displayed. This is

especially suitable for displaying text information, since no words are hidden by the bezel.





Advanced Functions and Utilities Help Create Effective Signage and Presentation

Blend Dual Picture Function

The Blend Dual Picture function overlays text information produced with a PC onto base motion images. This function makes it easy to produce subtitles without requiring expensive editing equipment. And because the text data is displayed in full-HD image quality, corporate or brand images can be effectively presented in high resolution.

- Please note that using this function to process images without the permission of the copyright holder for commercial display or for public viewing may infringe upon the rights of the convright holder
- With the PF12 Series, analogue signal combinations cannot be displayed. Signal combinations are also limited with the PF20 Series.



Dual Picture Mode

You can simultaneously display images from any two different AV sources connected. And you can select the audio output from either source. Playing back the audio from the sub-source can be useful in teleconferencing







- Portrait Zoom, Multi Display or Digital Zoom function does not work in Dual Picture mode.
 With the PF12 Series, analogue signal combinations cannot be displayed.
- Signal combinations are also limited with the PF20 Series.

Advanced Dual Picture Mode

This mode lets you overlay a video image onto a full-screen PC image. You are now able to combine a video clip with any text information from a PC, giving you a more effective way to present important messaging.

• With the PF12 Series, analogue signal combinations cannot be displayed. Signal combinations are also limited with the PE20 Series



Motion images, text messages and tickers can be displayed.



Motion images and text messages are

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Motion images in the 16:9 aspect ratio, text informations and tickers.

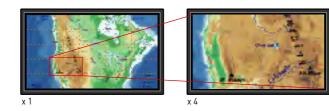


Motion images and tickers are combined

4x Digital Zoom

This function lets you enlarge a portion of an image up to four times its normal size and display it on the full screen. This function can help give presentations greater impact.

- Digital Zoom does not work in Multi Display or Dual Picture mode.
- Some degradation occurs when images are enlarged



Picture Profiles

The picture adjustment values set using the Picture menu and advanced settings can be stored in the display's memory as profiles. Up to eight combinations can be stored, and the preferred profile can be selected to match the video source being used.

1:1 Pixel Mode

The 1:1 Pixel mode maps the 1920 x 1080 video content to Full HD panel pixels to display 100% of the original content. By skipping the scaling process, this mode is able to produce high-definition images in their original, 1:1 pixel form.

* Compatible signal format: 1,125/50i, 60i, 24sF, 24p, 25p, 30p, 50p, 60p, 1,250/50i

Monitor Mode

This mode displays images without changing the brightness within the same signal level range, even if the average picture level (APL) of the screen varies. Since this mode maintains white balance regardless of the size of bright areas in the image, it is suitable for use in broadcast stations and image production studios in which precise colour reproduction is required.

Display Size Setting displays video signals so that the top, bottom, right and left screen edges that are usually cut off become visible.

Studio W/B Mode

lets you set the color temperature to best match the applications in broadcast stations and studios

Studio Gain Mode

increases the contrast to eliminate whiteout.

Screen Burn Reduction

Screen Saver Functions

A variety of screen saver functions help lower the risk of uneven phosphor aging. The timer can also be used to set the screen saver

operating time.	
OVERLAY SCROLLING BAR	The image brightness will be decreased and a white bar will
	scroll over it.
SCROLLING BAR ONLY	A white bar will scroll from left to right. The image will not be
	displayed.
PEAK LIMIT MODE	Lowers the peak brightness level (image contrast).
WHITE SCREEN	White will be displayed on the full screen

NANODRIFT SAVER

NANODRIFT

The new NANODRIFT SAVER reduces image retention five times*1 more effectively than previous systems. By using smooth, fine image movement it minimizes the possibility of image retention, without blocking the view.

- *1: Compared to our "wobbling" screen saver.

 NANODRIFT is a trademark of Panasonic Corporation.

Negative Image

A negative image will be displayed on the screen.

● Side Panel Adjustment

Brightens the black bands on the sides of the screen while displaying images in a 4:3 format.



Weekly Command Timer

This function makes it easy to automate display operation so there's no need for an external scheduler. You can set a variety of operations - power on/off, image source selection, screen saver functions and more — to activate at specific times on specific days of the week.







HDMI input source is

From 17:00 to 19:00, a

PC input source is displayed (with Wobbling mode ON).

From 19:00 to 23:00 a

PC input source is displayed (with Screen Reversal mode ON).

Remote System Monitoring

Panasonic pro plasma displays feature a monitor command that lets you check the signal from a distant location. In conventional systems, you had to install a monitoring camera to check the images displayed on an advertising display panel or digital signage system. This monitor command, on the other hand, lets you monitor images by simply connecting a PC via a serial cable.

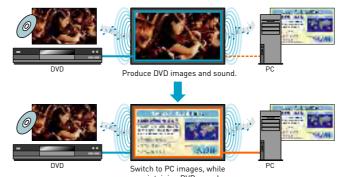
Tamper-Resistant Settings

You can prevent operating errors in public places by making tamperresistant settings in advance.

- Maximum volume level: Sets the maximum sound volume.
- Button lock: Restricts the button operations for the display.
- Remote user level: Restricts the key operations for the remote control

Audio Input Select

The video and audio input can each be independently selected. This makes it possible to achieve flexible combinations of images and



Automatic Picture Positioning

Simply press the Auto Setup key on the remote control to position the picture. This function automatically corrects horizontal and vertical picture positions, clock phase, and dot clock when an analogue RGB signal is selected as input. The adjustment results in optimal standard values for horizontal and vertical picture sizes.

- If the dot clock frequency is 162 MHz (for PF Series; 108 MHz for PH Series) or higher, DOT CLOCK and CLOCK PHASE cannot be made.
- When digital RGB signal input, DOT CLOCK and CLOCK PHASE cannot be made



proper image positioning.

Auto Power Off

The Auto Power Off function automatically turns off the display power when the screen saver operation ends.

Extended Life Settings

It's easy to make settings that extend the display life because all items that prevent image retention are grouped into a single menu. There's also a menu that allows you set the recommended values with a single operation.

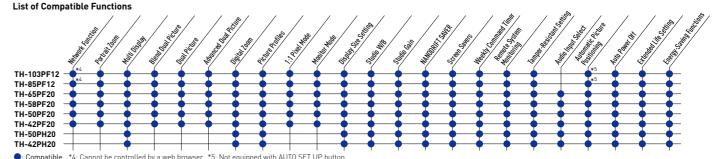
Energy-Saving Functions

- Power Management: Power is automatically turned on or off in response to a sync signal from the equipment connected to the built-in DVI-D*2 or PC*3 input terminal.
- Auto Power Off: When you're using a device connected to the multi-function slots, the display panel goes into standby mode after about 10 minutes if no sync signal is received.
- Power Save Mode: Reduces the display's brightness.
- Standby Power Save Mode: Reduces power consumption when on standby.
- *2: Only PF20/PH20 Series





unit that supports Display



New "Slot 2.0" Function Slot Expands Display Applications

PF20/PH20 Series

New "Slot 2.0" Function Slot

The new "Slot 2.0" function slot lets you add

5LOT 2.0 display functions to match the intended use. Mounting an optional function board allows the display to support a variety of applications.

Versatile Video Inputs with Multiple Digital, Analogue Connections

The PF20 and PH20 Series are equipped with full range of video input terminals, so you can input both analogue (Component Video, Video, PC) and digital (DVI-D, HDMI) video signals to the display. These standard-equipped terminals handle most of the commonly used video signals.



DVI-D

PF12 Series

Multi-Function Slots Offer Outstanding Flexibility

In addition to the fixed input interface, the PF12 Series models have three interchangeable slots that permit you add different combinations of optional terminal boards. This gives you the flexibility to add digital or analogue capabilities and customize your system.



Optional Terminal Boards



BNC Dual Video TY-FB9BD

TY-FB11DD

Dual HDMI

• 2 x HDMI IN

• Audio L/R (M3 jack)

SLOT 2.0 Slot 1 Slot 2

SLOT 2.0 Slot 1 Slot 2

SLOTED Slot 1 Slot 2

• 3 x IR-signal OUT (M3 jack)

BNC Component Video

RGB/component video (BNC)

• RGB/component video (RCA)

• S-Video or Composite in/out (BNC)

• S-Video or Composite in/out (RCA)

SLOT 2.0 Slot 1 Slot 2 Slot 3

HD-SDI with Audio

TY-FB10HD

output (BNC)

Ir Through

TY-FB9RT

TY-42TM6A

Audio L/R (RCA)

TY-42TM6Z

• Audio L/R (RCA)

TY-42TM6B

Audio L/R (RCA)

Slot 1 Slot 2

TY-42TM6V

Audio L/R (RCA)

Slot 1 Slot 2

Slot 1 Slot 2 Slot 3

RCA Component Video

Slot 1 Slot 2 Slot 3

BNC Composite Video

RCA Composite Video

TY-FB10HMD HDMI

• HD-SDI video/audio input and

- S-Video and Composite (BNC)
- 2 x Audio L/R (RCA)





* Does not support the Power











Only one terminal board can be used















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TY-42TM6P RGB (HV)/component video

PC Input

(D-Sub 15-pin) Audio L/R (M3 iack) Slot 1 Slot 2 Slot 3







SDI









Slot 1 Slot 2 SCART TY-FB8SC

• RGB/S-Video/Composite (SCART 21-pin) Audio L/R (SCART 21-pin)

Slot 1 Slot 2





- RGB (HV)/component video (BNC)
- S-Video or Composite in/out (BNC)
- 2 x Audio L/R (RCA)

Slot 1 & 2 | Slot 2 & 3

DVB-T Digital Tuner

TY-FB11DTA

· Digital audio ouit

Audio out (M3 jack)

Slot 2 & 3

• Ir system or through out

• SD Card Slot (used for servicing)

• Video out (RCA)

RGB Active Through TY-42TM6G

 RGB (HV)/component video (D-Sub HD 15-pin)

• RS-232C (D-Sub 9-pin) Slot 1 & 2

HDMI IN





* This board can be used in Australia only

U/V Tuner Board TY-FB8TA 0,00 mm 00









• Composite in/out S-video Audio in/out(I /R)

Hospitality port

• IR out SLOT 2.0





* This board can be used in Hong Kong only.

DMB-T/PAL Tuner Board TY-FB12DTH HDMI IN

Audio out

• SD Card Slot (used for servicing) SLOT 2.0 Slot 2 & 3

Dual Link HD-SDI Board

TY-FB11DHD

SLOT 20 Slot 1 Slot 2



- Supports the high-resolution, high-quality Dual Link HD-SDI (in compliance with SMPTE372M) and the HD-SDI (in compliance with SMPTE292M) used in broadcasting.
- Allows direct input of 2K digital cinema signals* in compliance with DCI (Digital Cinema Initiatives) without using a converter.
- * Compatible with RGB 4:4:4/YP®P® 4:2:2@60p, 50p/2K digital cinema signals in compliance with DCI.
- Provides simultaneous video and embedded audio (max. 16 channels)* signal transmission using a single cable.
- * Only when signals are multiplexed in Dual Link HD-SDI Link A

Max Transimission Distance/Recommended Cable

100 m*/75-ohm coaxial cable 5C-FB

* When using a cable with less than 20dB/100 m (750 MHz)

Compatible Video Signa

Companie viaco orginal		
Signal format	Sampling structure/Number of pixel bits	SDI name
750 (720)/60p: 59.94p		
750 (720)/50p		
1,125 (1,080)/60i: 59.94i		
1,125 (1,080)/50i	YCBCR (4:2:2)/10-bit	HD-SDI
1,125 (1,080)/30p: 29.97p		
1,125 (1,080)/25p		
1,125 (1,080)/24p: 23.985p		
1,125 (1,080)/24sF: 23.985sF		
1,125 (1,080)/60i: 59.94i		
1,125 (1,080)/50i	RGB (4:4:4), RGB + A (4:4:4:4)*1/10-bit	
1,125 (1,080)/30p: 29.97p	YCBCR (4:4:4), YCBCR + A (4:4:4:4)*1/10-bit	
1,125 (1,080)/25p	RGB (4:4:4), YCBCR (4:2:2), YCBCR (4:4:4)/12-bit*2	
1,125 (1,080)/24p: 23.985p	NOD (4:4:4), TOBOX (4:2:2), TODOX (4:4:4)/ 12-UIC	Dual-Link
1,125 (1,080)/24sF: 23.985sF		HD-SDI
1,125 (1,080)/60p	YCeCr (4:2:21/10-bit	
1,125 (1,080)/50p	1080# (4.2.2)/10°BIL	
2,048 x 1,080/24p: 23.985p	RGB (4:4:4), X´Y´Z´ (4:4:4)/12-bit*2	
2,048 x 1,080/24sF: 23.985sF	100 (4.4.4), A 1 Z (4:4:4)/1Z-UIL	
*1. A (Alpha channel) is not supported. This date	connet he output	

*1: A (Alpha channel) is not supported. This data cannot be nutnut

*2: A 12-bit signal can be received, but it will be converted to a 10-bit signal for the display of images

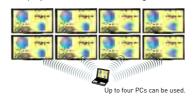
Wireless Presentation Board

TY-FB10WPE

Slot 1 & 2 Slot 2 & 3



- Wireless connection (IEEE 802.11b/11g) eliminates the need to connect any cables between the display and a PC.
- · High-speed wireless transmission produces smooth-motion images.
- Images from one PC can be displayed in real-time on as many as eight displays simultaneously. Images from up to 16 PCs can be simultaneously displayed
- onto a single screen. Plasma displays can be controlled using a Web browser



Wireless card

- RGB/component video (RCA)
- Audio I /R (RCA)

Normal operation may not be possible when the board is combined with another application (such as an image rotating utility) using the image data.
 This board cannot be used in some countries.

System Configuration Required by Wireless Manager software

	Windows	Macintosh*1								
OS	Microsoft Windows 2000 Professional/XP Home Edition/XP Professional	Mac OS X v10.4								
	Microsoft Windows Vista™ Ultimate 32 bit*¹/Vista™ Business 32 bit*¹	Mac OS X v10.5*2								
	Microsoft Windows Vista™ Home Premium 32 bit*1/Vista™ Home Basic 32 bit*1									
CPU	Intel Pentium III 600 MHz or faster (or compatible processor)	Power PC G4 800 MHz or faster, or Intel Core processor 1.8 GHz or faster								
	(Processing speed of 800 MHz or faster recommended for Live mode)	·								
Memory	256 MB or more	256 MB or more (Recommended 512MB or more)								
HDD	60 MB or more of available disk space									
Required hardware	 CD or DVD drive (for installing software and browsing the instruction manual) 									
		 LAN terminal (10BASE-T/100BASE-TX/1000BASE-T) 								
	 A correctly operating wireless LAN function supporting IEEE 802.118 	o/g, however, there are some cases where the device dose not receive								
	802.11g signal, though the win	eless LAN supports 802.11b/q.								
Web browser	Microsoft Internet Explorer 6.0 or newer	Safari 2.0 or newer								
	Netscape Communicator 7.0 or newer									

*2: The device can only used with Intel MacBook or MacBook Pro equipped with Core 2 Duo processor.

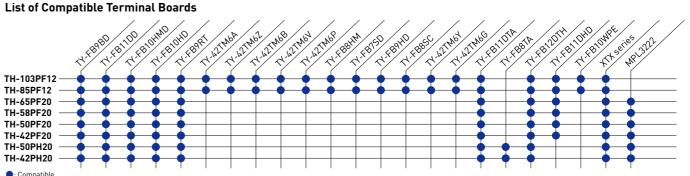
The relevate and my because with make MacDook or MacDook relegible principle provides only a Dook placesoon.

Motics - Usable functions are limited when operating under Windows Vista or MAC DS.

Microsoft, Windows and PowerPoint are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Intel and Pnitum are either trademarks of registered trademarks of linet Corporation in the United States and/or other countries.

Visit the website for more details on wireless manager software. http://panasonic.net/proplasma



AV Terminal Box



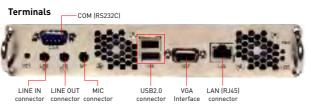


- Ideal for hotel guest rooms. Two input terminals (VIDEO/RGB) allow quests to easily connect to their own laptop PC, DVD player, or other portable device
- The TY-TB10AV can also be built into a desk or a bed sideboard

PDP Controller

XTX-1312 series SLOT 20 Slot 1 & 2 Slot 2 & 3





These high-performance internal PCs can be easily installed in the displays and offer the advantage of an all-in-one solution.

- Compact 2-slot width plug-in PC to facilitate turn-key solutions.
- Invisible installation, power supply through the display.
- Supports Compact Flash Cards.
- Supports VGA output for additional display.
- *The PDP Controller cannot be combined for use with other terminal boards.

**This board is not available in some countries.

System Example **Content Management** Software Display Display Display Display PDP PDP PDP PDP Controller Controller Controller Controller LAN/Internet/satellite network

Specifications

Specification	3										
Model number	XTX1312-N270BC	XTX1312-N270BC XTX1312-N270 XTX1312-N270BC-)									
Processor	Intel Single Core Atom N270 1.6GHz										
Memory		1GB RAM (DDR2 SO-DIMM)									
Internal HDD		80GB SATA HDD									
Interfaces	1 x LAN, 2 x USB2.0, 1 x Serial, 1 x Line In/Out, 1 x Mic In, 1 x VGA Out										
Pre-installed OS		 Windows XP embedded 									
Power supply		Supplied from th	e plasma display								
Standards		FCC. C	F. RoHs								

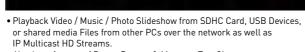
Media Player

MPL3222 SLOT 2.0



Terminals





• Also have feature of Popup Banner & Marquee Text Signage. Easy field programmable Digital Signage for effective Signage Application. *This board is not available in some countries.

Specifications	
Video Controller	SMP8653 Video Processor
Video Format	Mpeg-1, Mpeg-2, Mpeg-2 TS, Mpeg-4.10 (H.264), WMV9 (HD), AVCHD, MOV (Apple), Xvid
Audio Format	MP3, WMA
Image Format	JPEG, BMP, GIF, PNG
USB Interface	Type-A Host Connector
Audio OUT	Dolby Digital, DTS, THX Pass Through
SD Reader	SD card, SDHC card
LAN	RJ45 10/100 Base-T for easy IP Streaming
Language Support	English

Touch Panel



Examples of Touch-Panel Solutions



Discussion Display Panel

Information can be handwritten directly onto the sharp, clear images of the plasma display. This lets you visually summarise people's opinions and comments right on the screen for more efficient meetings.



Information Display Panel

A display system can be configured that lets the user flexibly retrieve information. An intuitive interface enables easy operation by simply touching the screen, making the system ideal for use in public facilities and commercial complexes.

Touch Panel (CMOS Camera Detection System)

TY-TP65P10S (for 65-inch model)

TY-TP58P10S (for 58-inch model)

TY-TP50P10S (for 50-inch model)

TY-TP42P10S (for 42-inch model)

- Two infrared image sensors detect coordinates based on a triangulation method.
- High resolution and smooth operation.
- Dividable frame system for compact packaging.

Note: The touch panel does not include a drawing application.

You cannot mount both a TY-TP65P10S or TP58P10S Touch Panel and an Anti-Glare Filter at the same time. Do not use the touch panel near windows or other locations where external light is directly reflected, or operating errors may result.

Specifications

Mode	el Number	TY-TP42P10S	TY-TP50P10S	TY-TP58P10S	TY-TP65P10S						
- e	Voltage		+ 5 V D	C ± 10%							
Power	Electric current	Max. 450 mA									
<u>т</u> .	Supply system		From U	ISB bus							
	Detection system	Infrared retroreflective detection									
	Panel window (W x H)	938 x 535 mm	1,128 x 648 mm	1,305 x 747.5 mm	1,449 x 819 mm						
_	Detection range (W x H)	920 x 518 mm	1,106 x 622 mm	1,287 x 723.5 mm	1,434 x 807 mm						
ane	Effective detection range	Same as above	Same as above	Same as above	Same as above						
ouch panel	Resolution		Approx. 32,000 (W):	x 18,000 (H) points*1							
ĕ	Output system	Coordinate output									
	Optic elements										
	Minimum detection size	7 mm	10 mm								
	Response rate	100 points/sec									
Interf	ace	USB 2.0 full speed device									
		Signals: +DATA, -DATA, VCC, GND									
			Connecto	r: Type B							
Resis	tance to external light	Lateral light: 2,000 lx + 20% (20° angle of incidence)									
		Frontal light: 10,000 lx + 20% (90° angle of incidence)									
Exter	nal dimensions (W x H x D)	1,016.4 x 686 x 47.9 mm	1,206.4 x 798.6 x 47.9 mm	1,395.4 x 923.1 x 47.9 mm	1,550.8 x 1,008.2 x 47.9 mm						
Mass		Approx. 4.1 kg	Approx. 4.6 kg	Approx. 5.8 kg	Approx. 6.7 kg						
Escut	cheon material		Alum	inum							
Applio	cable OS	Mi	crosoft® Windows® 2000, Wind	lows® XP, Windows® Vista (32	bit)						

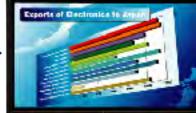
^{*1:} Resolution obtained by using a dedicated Driver software.

Anti-Glare Filter

TY-AR65P9W (for 65-inch model) TY-AR58P10W (for 58-inch model) TY-AR50P12W (for 50-inch model) TY-AR42P12W (for 42-inch model)



Without Anti-Glare Filter



With Anti-Glare Filter

- Mounting this filter to the front of the plasma display reduces glare from external light sources and reflections from fluorescent lighting.
- Anti-glare filter suppresses the transmission of visible light rays and improves contrast, to provide sharp, crisp images.
- This filter also has excellent physical characteristics, for preventing static electricity and resisting surface abrasion (with a surface hardness of 2H).

An Endless Array of Applications

EDUCATION

National University of Singapore Singapore

The previous projector system in the lecture room was replaced by these plasma displays. By solving problems such as the instructor's shadow covering the screen thereby making it difficult to see the images projected, and not being able to see images clearly unless shown in a dark room, these new displays offer excellent clarity and flexibility, even in brightly lit rooms.



DIGITAL SIGNAGE

Raymour & Flanigan USA

The material in the fine furniture and fabrics that are exhibited at Raymour & Flanigan stores are displayed in highly realistic large-screen images. The 85-inch plasma display, which features a wide viewing angle and excellent clarity, displays consistently sharp, easy-to-see information.





LEISURE

Paradis du Fruit Paris, France 13 x 103"

Paradis du Fruit is a restaurant chain in France. As part of a renovation project, thirteen Panasonic 103-inch plasma displays have been installed in its flagship restaurant in Paris. The high-quality images of these large screens form an integral part of a design concept that was created by Phillipe Starck, a renowned spatial designer. The displays also complement the fresh, modern look of the restaurant's interior. Their impact is sure to remain in each customer's memory for years to come





TRANSPORTATION

Kansai International Airport Osaka, Japan 6 x 85", 1 x 65", 2 x 50", 4 x 42"

A digital signage system consisting mainly of vertical 85-inch models was installed as part of a renewal project for the departure area of the airport. The ability of the large screens to display life-size images, and their extremely faithful image reproduction, are gathering widespread attention by airport users through highly effective display ads for various luxury brands





MEDICAL CARE

Ehime University Hospital Ehime, Japan 12 x 50", 3 x 37"

Plasma displays with superb colour reproduction, uniform colouring, and high-speed image response were installed in their operating rooms. The 50inch displays are currently being used as observation monitors for medical students to view important surgical procedures.



Nagoya Daini Red Cross Hospital Nagoya, Japan

This hospital recently changed its system of calling patients for examinations by their individual names. Instead, the hospital now uses patient numbers and an audio system aided by video animation that's shown on a plasma display. This better protects the privacy of the patients, and the high contrast and wide viewing angle makes the displayed images clearly visible from any location within the waiting room.



ENTERTAINMENT

IGT USA

IGT is the world's largest game machine manufacturer and holds the largest share of the slot machine market. IGT has integrated the 103" plasma display in some of its newest systems so a group of people can experience the gaming excitement at the same time.





Cinépolis Latin America

With Panasonic, Cinépolis — the largest movie theater company in Latin America — found a business partner capable of delivering solutions tailored to their specific needs. In addition to the endurance and robustness of all Panasonic plasma displays, these plasma panels also offer quality images and a wide variety of functions for ease of operation. During their five-year partnership Cinépolis and Panasonic has installed more than 3,000 plasma displays at Cinépolis' theaters, averaging 15 screens at each complex.





TV PRODUCTION

KHOU TV Houston, USA

3 x 50", 9 x 42", 3 x 58", 2 x 37"

Panasonic plasma displays reproduce colours across the entire HDTV-standard range, so colours are faithful and natural-looking. Superior motion-image resolution reproduces fast-action images with stunning clarity. The slim design allows considerable installation flexibility for creating a neat, attractive studio design





Specifications





TH-103PF12W (Anti-Glare, Low-Reflection model)

103-inch (260 cm) diagonal Full High Definition Plasma Display



TH-85PF12W (Anti-Glare, Low-Reflection model)

85-inch (217 cm) diagonal Full High Definition Plasma Display



TH-65PF20W

65-inch (164 cm) diagonal Full High Definition Plasma Display

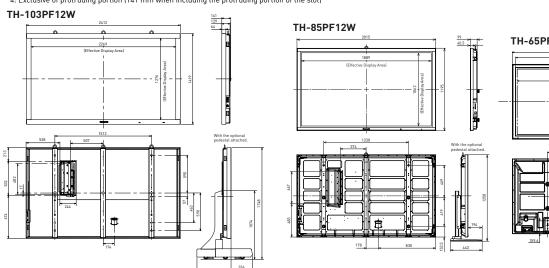
Specific	ations							
		TH-103PF12W	TH-85PF12W	TH-65PF20W				
	Screen Size (Diagonal)	103-inch (2,603 mm)	85-inch (2,167 mm)	65-inch (1,645 mm)				
	Aspect Ratio	16:9	16:9	16:9				
	Effective Display Area (W x H)	2,269 x 1,277 mm	1,889 x 1,062 mm	1,434 x 806 mm				
DISPLAY	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels				
DISPLAT	Pixel Pitch (H x V)	1.182 x 1.182 mm	0.984 x 0.984 mm	0.747 x 0.747 mm				
	Contrast Ratio*1	40,000:1	40,000:1	5,000,000:1				
	Gradation	6,144 steps (equivalent)	6,144 steps (equivalent)	6,144 steps (equivalent)				
	Moving Picture Resolution*2	1,080 lines	1,080 lines	1,080 lines				
APPLICABLE	Scanning Format	525 (480)/60i, 60p; 625 (575)/50i, 50p; 625 (576)/50i, 50p; 750 (720)/60p, 50p; 1125 (1080)/60i, 50	0i, 24p, 24sF, 25p, 30p, 60p, 50p; 1250 (1080)/50i				
SIGNALS	PC Signals	VGA, SVGA,	XGA, WXGA, SXGA, UXGA (Over SXGA resolution:	compressed)				
SIGNALS			Horizontal: 15 - 110 kHz / Vertical: 48 - 120 Hz	z				
	VIDEO IN	N/A	N/A	BNC x 1				
	AUDIO IN (for VIDEO)	N/A	RCA (L/R) x 1 set					
	COMPONENT/RGB IN	BNC x 3 (on Fu	BNC x 3					
	AUDIO IN (for COMPONENT)	M3 x 1 (on Fu	RCA (L/R) x 1 set					
INPUT	HDMI IN	HDMI x 2 (on F	HDMI x 1					
	DVI-D IN	N/A	N/A	DVI-D x 1				
	AUDIO IN (for DVI-D)	N/A	N/A	M3 x 1				
	PC IN		Mini D-sub 15-pin x 1					
	AUDIO IN (for PC)							
CONTROL	RS-232C		D-sub 9-pin x 1					
	LAN	RJ45: 10BASE-T/100BASE-TX, PJLir		RJ45: 10BASE-T/100BASE-TX, PJLink™ compatible				
SOUND	Audio Output	RCA (L/R) x 1 set, Output level: va	ariable (-∞ to 0 dB at 10 kilohms)	20 W [10 W + 10 W] (10 % THD)				
	Power Requirements	220 - 240 V AC, 50 Hz/60 Hz	220 - 240 V AC, 50 Hz/60 Hz	220 - 240 V AC, 50 Hz/60 Hz				
	Power Consumption	1,400 W	1,200 W	590 W				
ELECTRICAL	On Mode Average Power Consumption*3	1,065 W	890 W	500 W				
	Power off Condition	0.4 W	0.4 W	0.3 W				
	Stand-by Condition	Save Off: 1.2 W, Save On: 0.7 W	Save Off: 1.2 W, Save On: 0.7 W	Save Off: 1.2 W, Save On: 0.7 W				
	Dimensions (W x H x D)	2,412 x 1,419 x 129*4 mm	2,015 x 1,195 x 99 mm	1,554 x 925 x 99 mm				
MECHANICAL		201.0 kg	117.0 kg	55.0 kg				
	Function Slot (Vacant)	3 (1)	3 (1)	1 (1: SL0T2.0)				
	Temperature		0°C — 40°C					
	Humidity		20% — 80% (Non condensation)					
MECHANICAL F TO H OPERATION A	Altitude	0 — 2,		0 — 2,800 m				
	Radiation Regulations	CISPR22 Class-		CISPR22 Class-B				
	Safety Standards	AS/NZS60065, SASO, IEC60065/SS (AS/NZS60065, SASO, IEC60065/SS (Singapore),				
		GOST12.2.006-87, IEC	C60065/NOM approval	IEC60065/PAI, IEC60065				

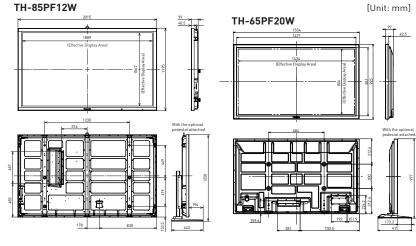
- *1: The dark room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4% window.

 *2: Measured by APDC (Advanced PDP Development Centre Corporation) Method.

 *3: Based on IEC 62087 Ed. 2 measurement method.

 *4: Exclusive of protruding portion (141 mm when including the protruding portion of the slot)







TH-58PF20W

58-inch (147 cm) diagonal Full High Definition Plasma Display



TH-50PF20W

50-inch (126 cm) diagonal Full High Definition Plasma Display



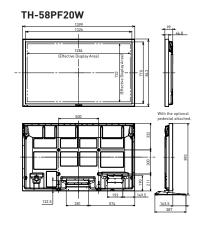
TH-42PF20W

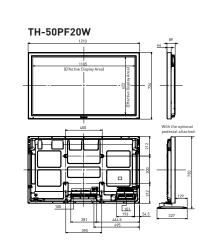
42-inch (105 cm) diagonal Full High Definition Plasma Display

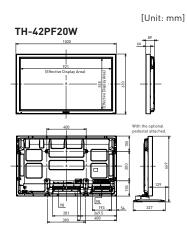
Specifications

		TH-58PF20W	TH-50PF20W	TH-42PF20W						
	Screen Size (Diagonal)	58-inch (1,473 mm)	50-inch (1,269 mm)	42-inch (1,057 mm)						
DISPLAY APPLICABLE SIGNALS INPUT CONTROL SOUND A ELECTRICAL G MECHANICAL OPERATION I OPERATION I OPERATION I I OPERATION I I I I I I I I I I I I I	Aspect Ratio	16:9	16:9	16:9						
	Effective Display Area (W x H)	1,284 x 722 mm	1,105 x 622 mm	921 x 518 mm						
DICDI AV	Number of Pixels (H x V)	1,920 x 1,080 pixels	1,920 x 1,080 pixels	1,920 x 1,080 pixels						
DISFLAI	Pixel Pitch (H x V)	0.669 x 0.669 mm	0.576 x 0.576 mm	0.480 x 0.480 mm						
	Contrast Ratio*1	5,000,000:1	5,000,000:1	5,000,000:1						
	Gradation	6,144 steps (equivalent)	6,144 steps (equivalent)	6,144 steps (equivalent)						
	Moving Picture Resolution*2	1,080 lines	1,080 lines	1,080 lines						
ADDLICABLE	Scanning Format	525 (480)/60i, 60p; 625 (575)/50i, 50p; 625 (576))/50i, 50p; 750 (720)/60p, 50p; 1125 (1080)/60i, 50	i, 24p, 24sF, 25p, 30p, 60p, 50p; 1250 (1080)/50i						
	PC Signals	VGA, SVGA,	XGA, WXGA, SXGA, UXGA (Over SXGA resolution: c	ompressed)						
SIGNALS			-tz							
	VIDEO IN	BNC x 1	BNC x 1	BNC x 1						
	AUDIO IN (for VIDEO)	RCA (L/R) x 1 set	RCA (L/R) x 1 set	RCA (L/R) x 1 set						
	COMPONENT/RGB IN	BNC x 3	BNC x 3	BNC x 3						
	AUDIO IN (for COMPONENT)	RCA (L/R) x 1 set	RCA (L/R) x 1 set	RCA (L/R) x 1 set						
INPUT	HDMI IN	HDMI x 1	HDMI x 1	HDMI x 1						
INPUT I	DVI-D IN	DVI-D x 1	DVI-D x 1							
	AUDIO IN (for DVI-D)	M3 x 1	M3 x 1	M3 x 1						
	PC IN		Mini D-sub 15-pin x 1							
	AUDIO IN (for PC)		M3 x 1							
CONTROL	RS-232C	D-sub 9-pin x 1								
CONTROL	LAN	F	RJ45: 10BASE-T/100BASE-TX, PJLink™ compatible	e						
SOUND	Audio Output	16 W [8 W + 8 W] (10 % THD)	16 W [8 W + 8 W] (10 % THD)	16 W [8 W + 8 W] (10 % THD)						
	Power Requirements	220 - 240 V AC, 50 Hz/60 Hz	220 - 240 V AC, 50 Hz/60 Hz	220 - 240 V AC, 50 Hz/60 Hz						
	Power Consumption	560 W	445 W	375 W						
ELECTRICAL	On Mode Average Power Consumption*3	455 W	370 W	300 W						
	Power off Condition	0.3 W	0.3 W	0.3 W						
	Stand-by Condition	Save Off: 1.2 W, Save On: 0.7 W	Save Off: 1.1 W, Save On: 0.6 W	Save Off: 1.1 W, Save On: 0.6 W						
	Dimensions (W x H x D)	1,399 x 843 x 99 mm	1,210 x 724 x 89 mm	1,020 x 610 x 89 mm						
MECHANICAL	Weight (approx.)	45.0 kg	31.0 kg	24.0 kg						
	Function Slot (Vacant)	1 (1: SL0T2.0)	1 (1: SLOT2.0)	1 (1: SLOT2.0)						
	Temperature		0°C — 40°C							
	Humidity		20% — 80% (Non condensation)							
OPERATION	Altitude		0 — 2,800 m							
	Radiation Regulations		CISPR22 Class-B							
	Safety Standards	AS/NZS600	65, SASO, IEC60065/SS (Singapore), IEC60065/PA	I, IEC60065						

- *1: The dark room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4% window.
 *2: Measured by APDC (Advanced PDP Development Centre Corporation) Method.
 *3: Based on IEC 62087 Ed. 2 measurement method.







Specifications





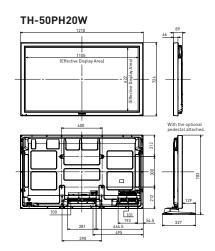
TH-50PH20W 50-inch (126 cm) diagonal High Definition Plasma Display

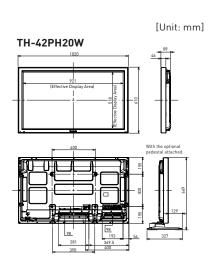


TH-42PH20W 42-inch (105 cm) diagonal High Definition Plasma Display

Specification	ons						
		TH-50PH20W	TH-42PH20W				
	Screen Size (Diagonal)	50-inch (1,269 mm)	42-inch (1,057 mm)				
	Aspect Ratio	16:9	16:9				
	Effective Display Area (W x H)	1.105 x 622 mm	921 x 518 mm				
	Number of Pixels (H x V)	1,03 x 622 mm	1,024 x 768 pixels				
DISPLAY	Pixel Pitch (H x V)	1,080 x 0.810 mm	0.900 x 0.675 mm				
	Contrast Ratio*1	2,000,000:1	2,000,000:1				
	Gradation	5,120 steps (equivalent)	5,120 steps (equivalent)				
	Moving Picture Resolution*2	5,120 steps (equivalent) 720 lines	5,120 steps (equivalent)				
	J		120 111120				
APPLICABLE	Scanning Format	525 (480)/60i, 60p; 625 (575)/50i, 50p; 625 (576)/50i, 50p; 750 (720)/60p,					
SIGNALS	PC Signals	VGA, SVGA, XGA, WXGA, SXGA, UXGA					
	WBEO IN		z / Vertical : 48 — 120 Hz				
		BNC x 1	BNC x 1				
		RCA (L/R) x 1 set	RCA (L/R) x 1 set				
		BNC x 3	BNC x 3				
	VIDEO IN AUDIO IN [for VIDEO] COMPONENT/RGB IN AUDIO IN [for COMPONENT] HDMI IN DVI-D IN AUDIO IN [for DVI-D] PC IN AUDIO IN [for PC]	RCA (L/R) x 1 set	RCA (L/R) x 1 set				
INPUT		HDMI x 1	HDMI x 1				
		DVI-D x 1	DVI-D x 1				
		M3 x 1	M3 x 1				
		Mini D-sub 15-pin x 1	Mini D-sub 15-pin x 1				
		M3 x 1	M3 x 1				
	RS-232C	D-sub 9-pin x 1	D-sub 9-pin x 1				
SOUND	Audio Output	16 W [8 W + 8 W] (10 % THD)	16 W [8 W + 8 W] (10 % THD)				
	Power Requirements	220 - 240 V AC, 50 Hz/60 Hz	220 - 240 V AC, 50 Hz/60 Hz				
	Power Consumption	330 W	275 W				
ELECTRICAL	On Mode Average Power Consumption*3	245 W	190 W				
	Power off Condition	0.3 W	0.3 W				
	Stand-by Condition	Save Off: 1.1 W, Save On: 0.6 W	Save Off: 1.1 W, Save On: 0.6 W				
	Dimensions (W x H x D)	1,210 x 724 x 89 mm	1,020 x 610 x 89 mm				
MECHANICAL	Weight (approx.)	33.0 kg	25.0 kg				
	Function Slot (Vacant)	1 (1: SL0T2.0)	1 (1: SL0T2.0)				
	Temperature	0°C –	- 40°C				
DISPLAY APPLICABLE SIGNALS INPUT CONTROL SOUND ELECTRICAL GENERATION APPLICABLE INPUT INPU	Humidity	20% — 80% (No	n condensation)				
OPERATION	Altitude	0 - 2	800 m				
	Radiation Regulations		! Class-B				
	Safety Standards	AS/N7S60065 SASO JEC60065/SS (

AS/NZS60065, SASO, IEC60065/SS (Singapore), IEC60065/PAI, IEC60065 *1: The dark room contrast ratio of the panel unit that can be displayed simultaneously on the same screen. Measured in "Dynamic" picture mode using a white signal in a 4% window.





Mounting Options

Pedestal

TY-ST103PF9

Weight: 122.0 kg



TY-ST85P12 Weight: 58.0 kg



TY-ST65P20

Weight: 6.0 kg



TY-ST58P20

Weight: 3.0 kg



Wall-hanging bracket * Also usable for portrait mo

TY-WK103PV9

Weight: 25.0 kg



TY-WK85PV12

Weight: 18.0 kg



TY-WK42PV20

Weight: 2.3 kg



Wall-hanging bracket (angled)

TY-WK65PR20

Weight: 6.0 kg

* Also usable for portrait mounting in 0 degree.



TY-WK42PR20

Weight: 3.2 kg



Ceiling-hanging bracket

TY-CE103PS10 Adjustable angle: $0^{\circ} - 20^{\circ}$

Weight: Vertical type: 15.0 kg Inclined type: 37.0 kg



TY-CE85PS12 Adjustable angle: 0° — 20°

Weight: 35.0 kg

The photo shows the bracket at 20° incline.

TY-CE42PS20 Weight: 16.0 kg



Floor stand TY-ST85PF12

Weight: 82.0 kg

*To prevent overturning when using the floor stand, mount the stand brace to the wall. This will halt any vibration. The casters are not to be used for moving the main unit around.



Mobile stand

TY-ST58PF20 Weight: 33.0 kg



Detachable stereo speakers

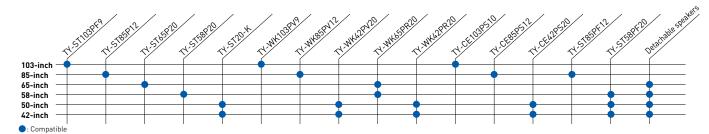
TY-SP65P11WK (for 65-inch)

Weight: 2.2 kg/each TY-SP58P10WK (for 58-inch) Weight: 2.5 kg/each

TY-SP50P8W-K (for 50-inch) Weight: 2.0 kg/each

TY-SP42P8W-K (for 42-inch) Weight: 2.0 kg/each





^{*2:} Measured by APDC (Advanced PDP Development Centre Corporation) Method. *3: Based on IEC 62087 Ed. 2 measurement method.

Preset Input Signals

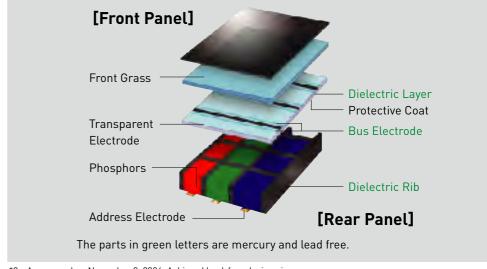
								Optional Terminal Board											Fixed Terminals (20 series)				Dot Clock (MHz)	
Si	qnal name	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Composite/Component Video TY-42TM6Y	Component Video TY-42TM6A/Z	PC Input TY-42TM6P	RGB Active Through TY-42TM6G	Composite Video TY-42TM6B/V	BNC Dual Video	DVI-D TY-FB11DD	soi TY-FB7SD	но-spi ТҮ- FB9HD	HD-SDI with Audio TY-FB10HD	Duat Link HD-SDI TY-FB11DHD	HDMI TY-FB8HM	Duat HDMI TY-FB10HMD	SCART TY-FB8SC	Component Video	Composite Video	НВМІ	DVI-D	PC IN (D-Sub 15-pin) Fixed Terminal	Component RGB In/PC In	DVI-D In
	NTSC	15.73	59.94	Y	-			Y	Y	-	o, p						Y		Y	_				
iŧ	PAL	15.63	50.00	Y				Y	Y								Y		Y					
Composite	PAL60	15.73	59.94	Y				Y	Y								Y		Y					
Ē	SECAM	15.63	50.00	Y				Y	Y								Y		Y					
ŭ	Modified NTSC	15.73	59.94	Y				Y	Y								Y		Y					
	525 (480)/60i	15.73	59.94	Y	Υ	Y	Υ				Υ	Υ	Υ					Υ		Υ	Υ	Υ	13.5	27.0
	525 (480)/60p	31.47	59.94	Υ	Υ	Y (*1)	Y (*1)			Υ					Υ	Υ		Υ		Υ	Υ	Y (*1)	27.0	27.0
	625 (575)/50i	15.63	50.00	Y	Υ	Υ	Υ											Υ				Υ	13.5	
	625 (576)/50i	15.63	50.00								Υ	Υ	Υ							Υ	Υ			27.0
	625 (575)/50p	31.25	50.00	Υ	Υ	Υ	Υ											Υ				Υ	27.0	
	625 (576)/50p	31.25	50.00							Υ					Υ	Υ				Υ	Υ			27.0
	750 (720)/60p	45.00	60.00	Υ	Υ	Υ	Υ			Υ		Υ	Υ	Υ	Υ	Υ		Υ		Υ	Υ	Υ	74.25	74.25
38	750 (720)/50p	37.50	50.00	Υ	Υ	Υ	Υ			Υ		Υ	Υ	Υ	Υ	Υ		Υ		Υ	Υ	Υ	74.25	74.25
Æ	1125 (1080)/60i	33.75	60.00	Y (*2)	Y (*2)	Y (*2)	Y (*2)			Υ		Υ	Υ	Υ	Υ	Υ		Y (*2)		Υ	Υ	Y (*2)	74.25	74.25
Component/RGB	1125 (1080)/60p	67.50	60.00	Y (*2)	Y (*2)	Y (*2)	Y (*2)			Υ				Υ		Υ		Y (*2)		Υ	Υ	Y (*2)	148.5	148.5
e o	1125 (1080)/50i	28.13	50.00	Y (*2)	Y (*2)	Y (*2)	Y (*2)			Υ		Υ	Υ	Υ	Υ	Υ		Y (*2)		Υ	Υ	Y (*2)	74.25	74.25
Ĕ	1125 (1080)/50p	56.25	50.00	Y (*2)	Y (*2)	Y (*2)	Y (*2)			Υ				Υ		Υ		Y (*2)		Υ	Υ	Y (*2)	148.5	148.5
ပိ	1125 (1080)/30p	33.75	30.00	Y (*2)	Y (*2)	Y (*2)	Y (*2)			Υ		Υ	Υ	Υ				Y (*2)			Υ	Y (*2)	74.25	74.25
	1125 (1080)/25p	28.13	25.00			Y (*2)				Υ		Υ	Υ	Υ				Y (*2)			Υ	Y (*2)	74.25	74.25
	1125 (1080)/24p	27.00	24.00	Y (*2)	Y (*2)	Y (*2)	Y (*2)			Υ		Υ	Υ	Υ		Υ		Y (*2)		Υ	Υ	Y (*2)	74.25	74.25
	1125 (1080)/24sF	27.00	48.00	Y (*3)	Y (*3)	Y (*3)	Y (*3)					Υ	Υ	Υ				Y (*3)				Y (*3)	74.25	
	1250 (1080)/50i	31.25	50.00	Y (*4)	Y (*4)	Y (*4)	Y (*4)											Y (*4)				Y (*4)	74.25	
	2048 x 1080/24p	27.00	24.00											Υ										
	2048 x 1080/24sF	27.00	48.00	_										Υ										
	640 x 400 @70Hz	31.46	70.07	Υ	Υ	Υ	Υ											Υ				Υ	25.17	
	640 x 480 @60Hz	31.47	59.94	Y (*5)		_	Υ			Υ					Υ	Υ		Y (*5)		Υ	Υ	Υ	25.18	25.18
	640 x 480 @72Hz	37.86	72.81	Y	Y	Y	Y											Υ				Y	31.5	
	640 x 480 @75Hz	37.50	75.00	Y	Y	Y	Y											Y				Y	31.5	
	640 x 480 @85Hz 800 x 600 @56Hz	43.27 35.16	85.01 56.25	Y	Y	Y	Y											Y				Y	36.0 36.0	
	800 x 600 (d56Hz	37.88	60.32	Y	Y	Y	Y			Υ								Y		Υ	Υ	Y	40.0	40.0
	800 x 600 @72Hz	48.08	72.19	Y	Y	Y	Y			I								Y		I	I	Y	50.0	40.0
	800 x 600 (d72Hz	46.88	75.00	Y	Y	Y	Y											Y				Y	49.5	
	800 x 600 @85Hz	53.67	85.06	Y	Y	Y	Y											Y				Y	56.25	
	852 x 480 @60Hz	31.47		Y (*5)	_	_	Y			Υ								Y (*5)			Υ	Y	33.54	34.24
	1024 x 768 @50Hz	39.55	50.00	1 (3)	1 (3)	1	-			Y								1 (3)			Y	<u>'</u>	33.34	51.89
	1024 x 768 @60Hz	48.36	60.00	Υ	Υ	Υ	Υ			Y								Υ		Υ	Y	Υ	65.0	65.0
	1024 x 768 @70Hz	56.48	70.07	Y	Y	Y	Y			<u>'</u>								Y		<u>'</u>	<u>'</u>	Y	75.0	00.0
	1024 x 768 @75Hz	60.02	75.03	Y	Y	Y	Y											Y				Y	78.75	
	1024 x 768 @85Hz	68.68	85.00	Y	Y	Y	Y											Y				Y	94.5	
	1066 x 600 @60Hz	37.64	59.94	Y	Υ	Υ	Υ			Υ								Υ			Υ	Υ	53.0	53.0
RGB		53.70	60.00							Υ								-			Y			81.62
œ	1152 x 864 @75Hz	67.50	75.00	Υ	Υ	Υ	Υ			-								Υ				Υ	108.0	
	1280 x 768 @60Hz	47.70	60.00	Υ	Υ	Υ	Υ											Υ				Υ	80.14	
	1280 x 960 @60Hz		60.00	Υ	Υ	Υ	Υ											Υ				Υ	108.0	
	1280 x 960 @85Hz	85.94	85.00	Υ	Υ	Y	Υ											Υ				Υ	148.5	
	1280 x 1024 @60Hz	63.98	60.02	Υ	Υ	Υ	Υ			Υ								Υ		Υ	Υ	Υ	108.0	108.0
	1280 x 1024 @75Hz		75.03	Y	Υ	Υ	Υ											Υ				Υ	135.0	
	1280 x 1024 @85Hz	91.15	85.02	Υ	Υ	Υ	Υ											Υ				Υ	157.5	
	1366 x 768 @50Hz	39.55	50.00							Υ											Υ			69.92
	1366 x 768 @60Hz	48.36	60.00	Υ	Υ	Υ	Υ			Υ								Υ			Υ	Υ	86.71	87.44
	1400 x 1050 @60Hz		60.00							Υ											Υ			122.61
	1600 x 1200 @60Hz		60.00	Υ	Υ	Υ	Υ			Υ								Υ			Υ	Υ	162.0	162.0
	1600 x 1200 @65Hz		65.00	Υ	Υ	Υ	Υ											Υ				Υ	175.5	
	1920 x 1080 @60Hz		60.00	Y (*6)	Y (*6)	Y (*6)	Y (*6)			Y (*6)								Y (*6)			Y (*6)	Y (*6)	148.5	148.5
	1920 x 1200 @60Hz		59.95							Υ											Υ			154.0
	Mac 13 (640 x 480)	35.00	66.67	Υ	Υ	Υ	Υ											Υ				Υ	30.24	
	Mac 16 (832 x 624)	49.72	74.54	Υ	Υ	Υ	Υ											Υ				Υ	57.28	
	Mac 21 (1152 x 870)	68.68	75.06	Υ	Υ	Υ	Υ											Υ				Υ	100.0	
*1.	When selected the RGI	R format a	and 525n s	lanal	it is re		ed as	VGA A	∩ H⁊ si	anal *	2. Ras	ed on	SMPT	F 27/N	/ stand	dard *	3 · Bas	ed on	SMPT	F RP2	11 star	ndard		

^{*1:} When selected the RGB format and 525p signal, it is recognized as VGA 60 Hz signal. *2: Based on SMPTE 274M standard. *3: Based on SMPTE RP211 standard. *4: Based on SMPTE 295M standard. *5: When inputted VGA 60 Hz format signal, it is recognized as 525p signal. *6: Recognized as 1,125 (1,080)/60p signal. Note: When a signal having a resolution that exceeds the panel resolution is input, a simplified display will be produced.

Panasonic Plasma Displays — The World's Most Preferred and Trusted Brand

The World's First*8 Lead-Free Plasma Display Panels — Gentle to the Environment

Panasonic was the first in the world to develop and mass produce lead-free plasma display panels. Panasonic proclaimed a "lead-free" design in all plasma display models from 2006 onward, thus reducing the possibility of pollution caused by environmentally hazardous substances in disposed products. It also eliminated the use of polyvinyl chloride in internal wiring, all as a part of its active promotion of environmentally friendly manufacturing.



*8: Announced on November 2, 2006. Achieved lead-free designs in all 140 models for worldwide markets.

The Amagasaki Plant, which manufactures all Panasonic plasma display panels, uses a variety of environment-friendly systems and technologies, such as a photocatalytic coating on building exteriors, the "Kaze-Kamome" (Wind-Seagull) hybrid wind and solar power tower system, and sprinklers that use rainwater.



Amagasaki Plant No. 5









Exterior wall with

"Kaze-Kamome' Sprinkler using rainwater

In-House Development and Production of Everything from Devices to Finished Products

Panasonic conducts all activities related to its plasma displays in-house (at its Amagasaki Plant), such as its research and development of the panels and devices that form the key components of the plasma display, the development of circuits and drive systems, and the assembly of finished products.

In order to quickly reflect feedback from customers worldwide into production, Panasonic operates assembly plants at four. In addition Panasonic has established sales and service bases at 65 locations around the world to meet the requirements and service requests demanded by users, and particularly those of professional users. Panasonic's global network is designed to achieve optimum production efficiency in each stage of manufacturing, and responds to growing worldwide demand for plasma display panels.

